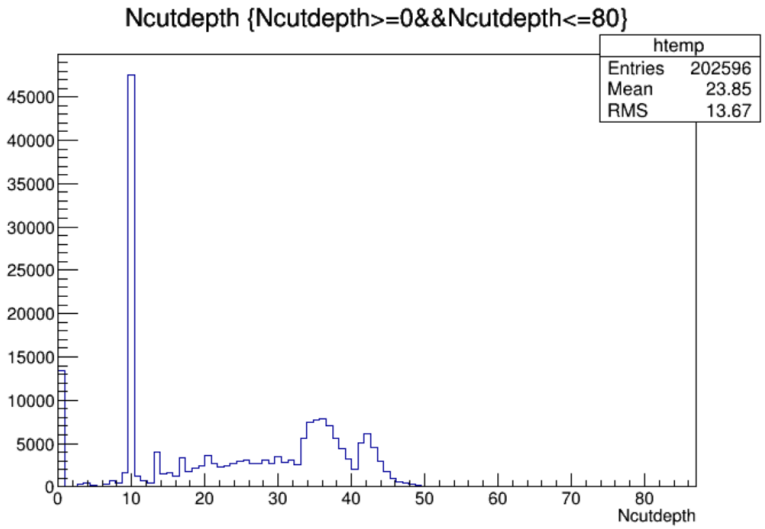
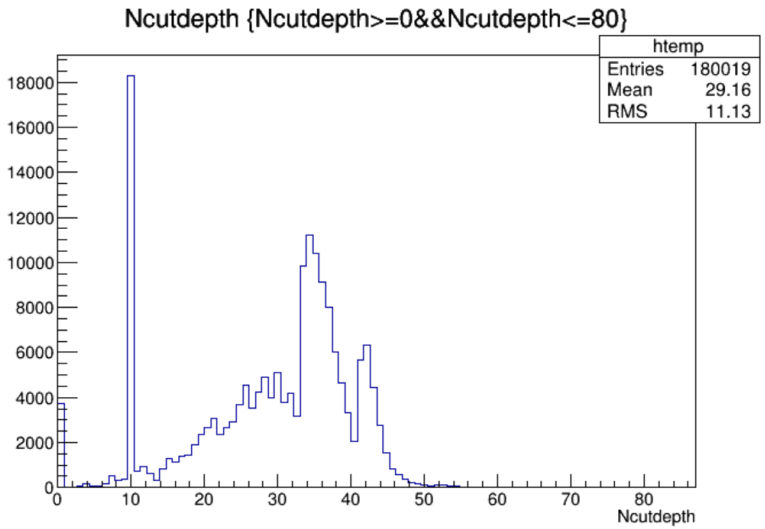
Event selection

- $V_r < 1$ cm, $|V_z| < 10$ cm for charged track
- $N_{good} = 2$ and $Q_{tot} = 0$
- $|cos\theta_{MDC}| < 0.93$
- $E/P \leq 0.5$
- $P/E_{beam} \geq 0.8$
- $|\Delta\theta_{MDC}| < 10^{\circ}$ and $|\Delta\phi_{MDC}| < 5^{\circ}$, ($|\Delta\theta| = |\theta_1 + \theta_2| - 180^{\circ}$, $|\Delta\phi| = |\phi_1 - \phi_2| - 180^{\circ}$)
- $|\Delta tof| < 3\ ns$
- The depth in MUC should be larger than 35 cm （Not in use temporarily）

MUC depth

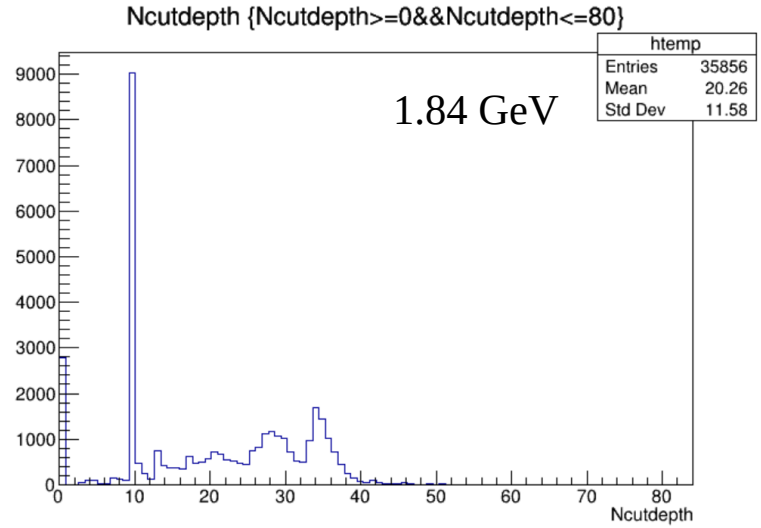


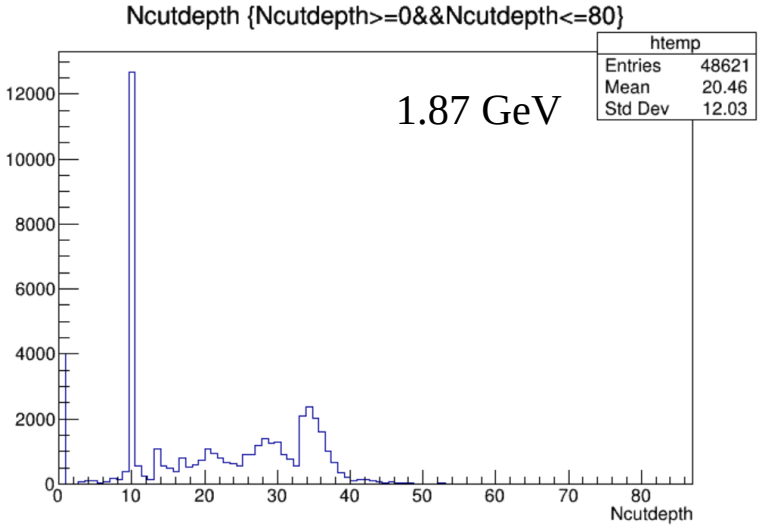
2.0 GeV / data

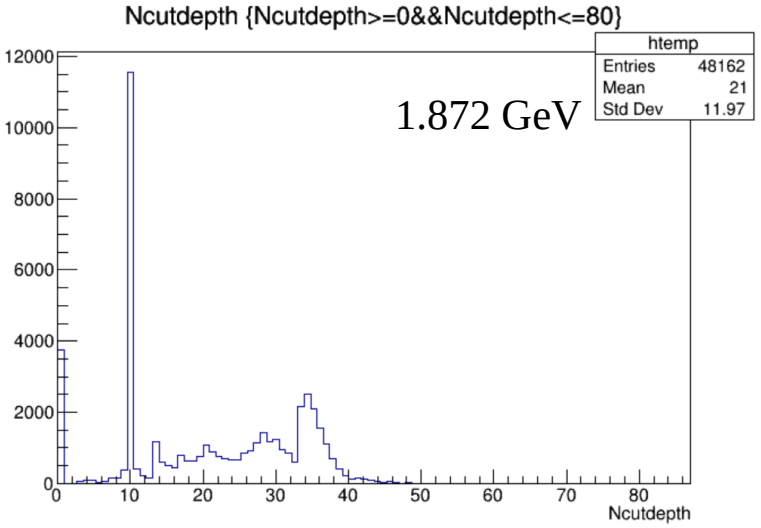


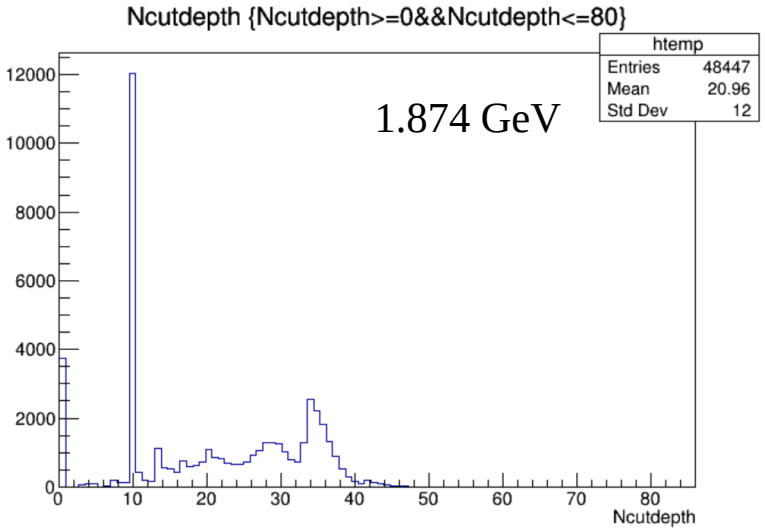
2.0 GeV / dimu MC

MUC depth

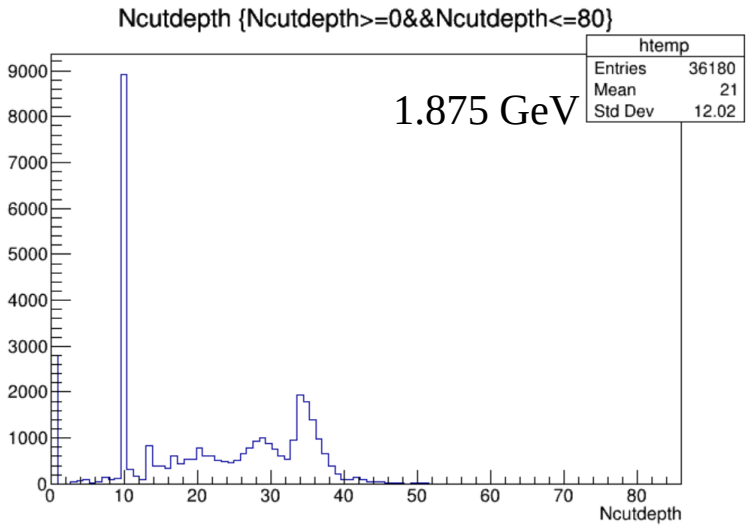

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 35856
Mean 20.26
Std Dev 11.58
1.84 GeV
Ncutdepth

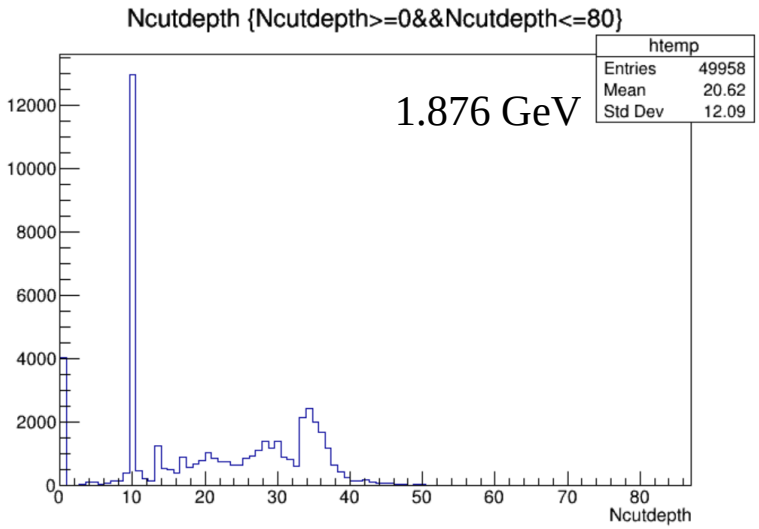

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 48621
Mean 20.46
Std Dev 12.03
1.87 GeV
Ncutdepth

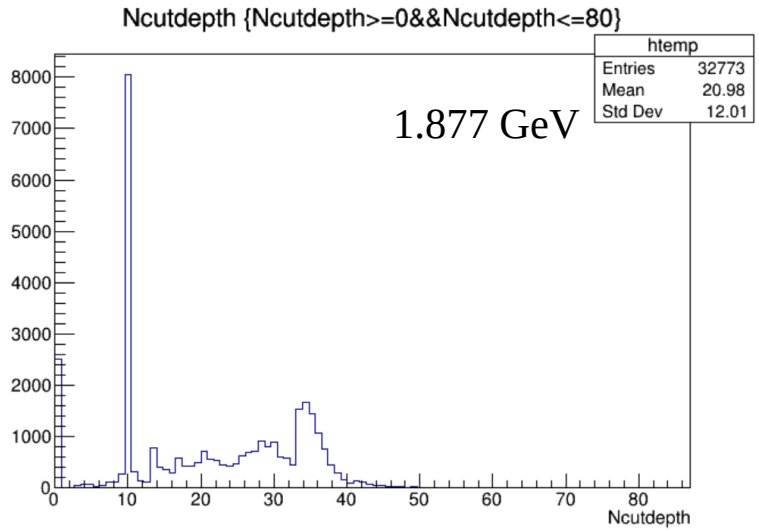

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 48162
Mean 21
Std Dev 11.97
1.872 GeV
Ncutdepth

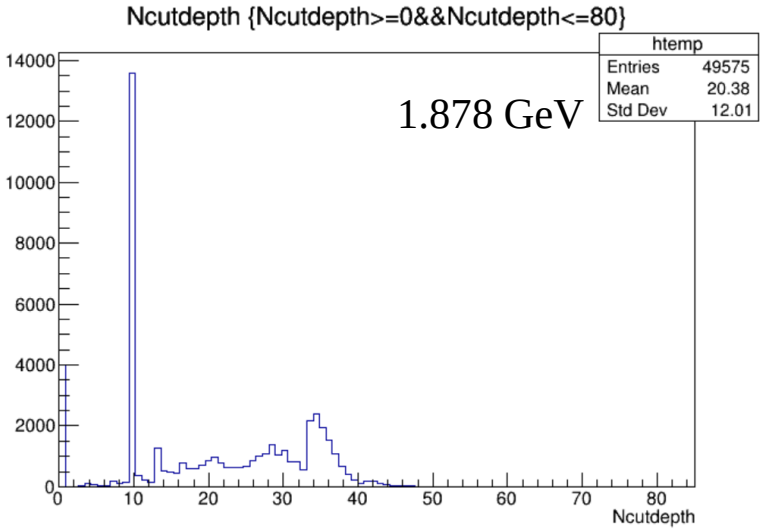

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 48447
Mean 20.96
Std Dev 12
1.874 GeV
Ncutdepth

MUC depth

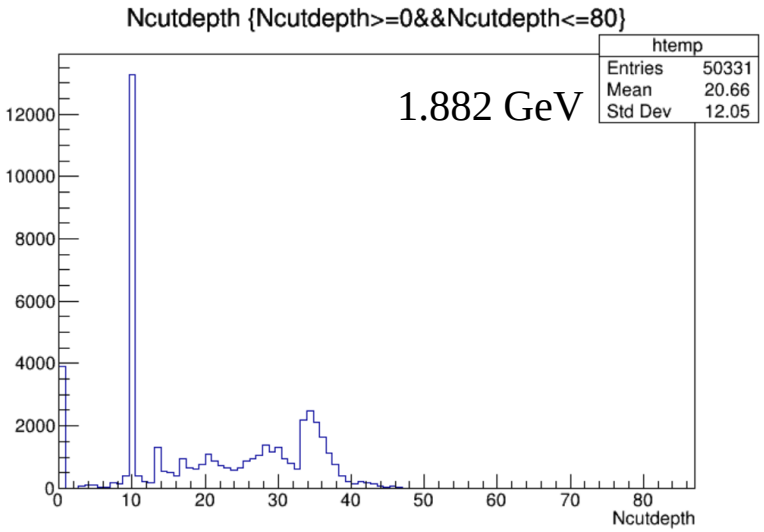

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 36180
Mean 21
Std Dev 12.02
1.875 GeV
Ncutdepth

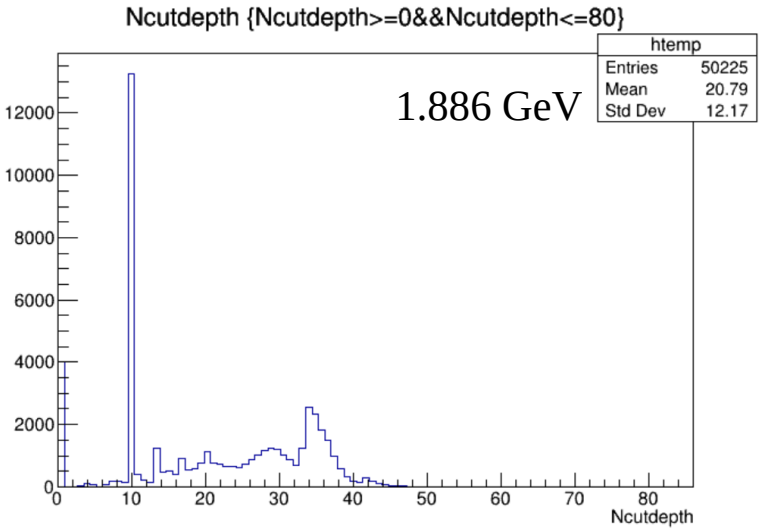

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 49958
Mean 20.62
Std Dev 12.09
1.876 GeV
Ncutdepth

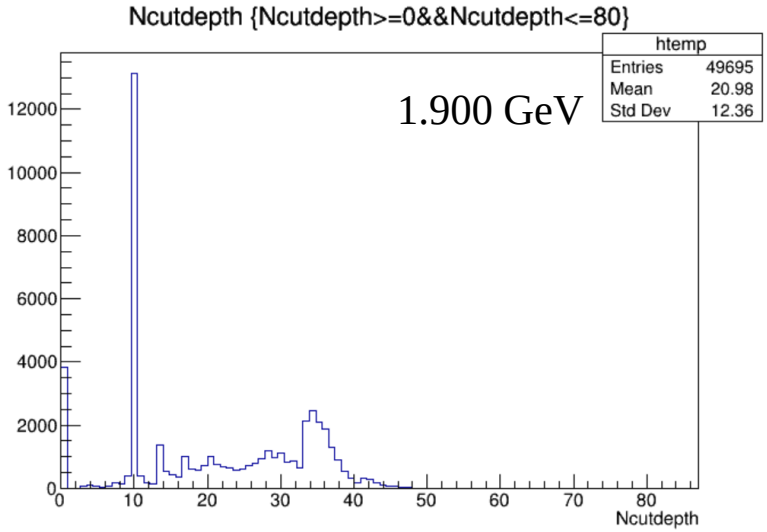

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 32773
Mean 20.98
Std Dev 12.01
1.877 GeV
Ncutdepth

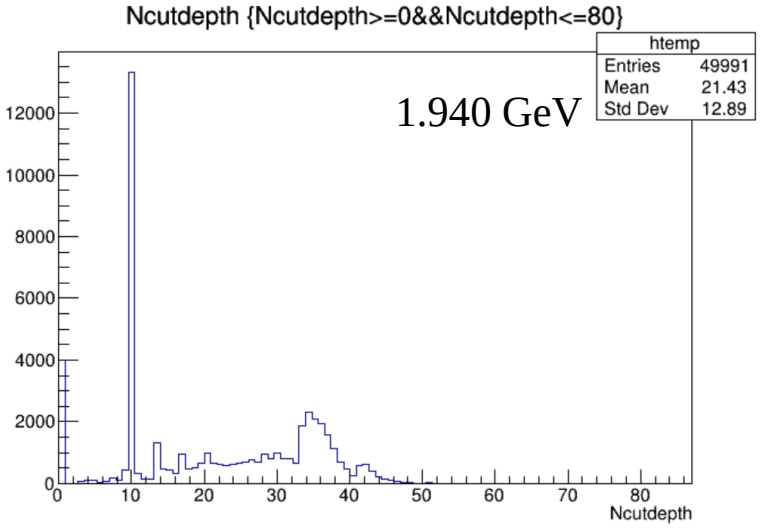

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 49575
Mean 20.38
Std Dev 12.01
1.878 GeV
Ncutdepth

MUC depth

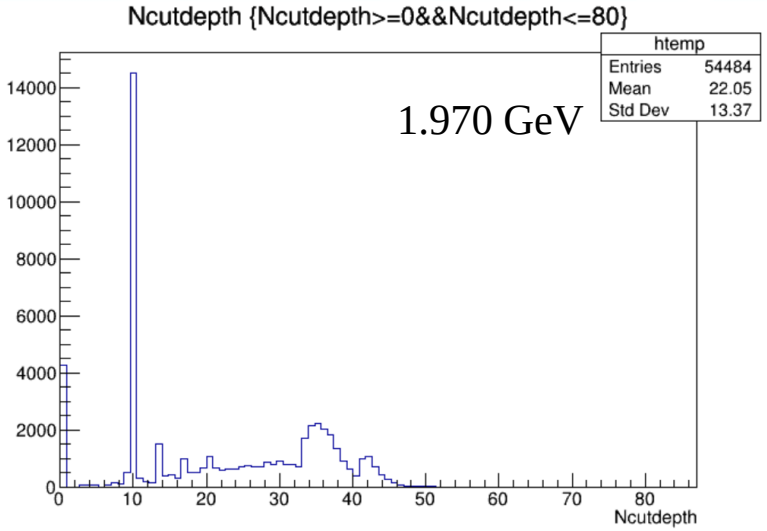

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 50331
Mean 20.66
Std Dev 12.05
1.882 GeV
Ncutdepth


Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 50225
Mean 20.79
Std Dev 12.17
1.886 GeV
Ncutdepth

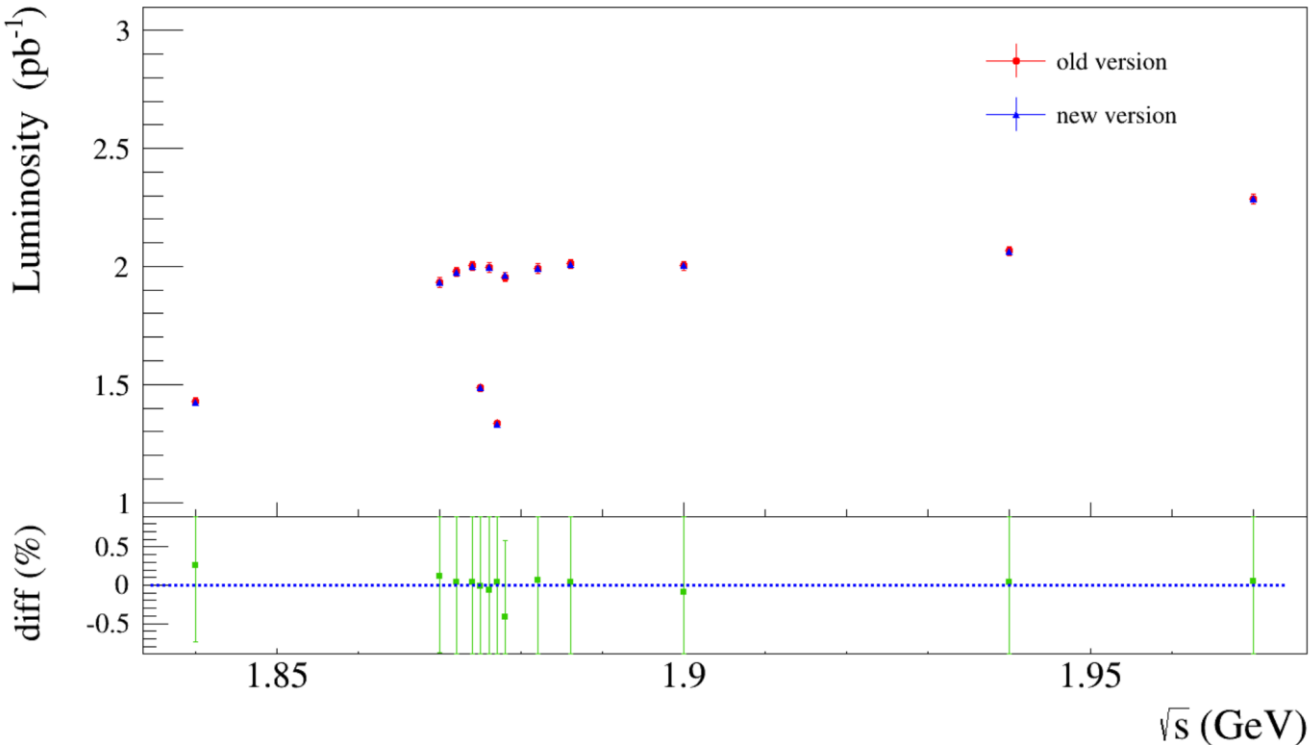

Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 49695
Mean 20.98
Std Dev 12.36
1.900 GeV
Ncutdepth


Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 49991
Mean 21.43
Std Dev 12.89
1.940 GeV
Ncutdepth

MUC depth


Ncutdepth {Ncutdepth>=0&&Ncutdepth<=80}
htemp
Entries 54484
Mean 22.05
Std Dev 13.37
1.970 GeV
14000
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60
70
80
Ncutdepth

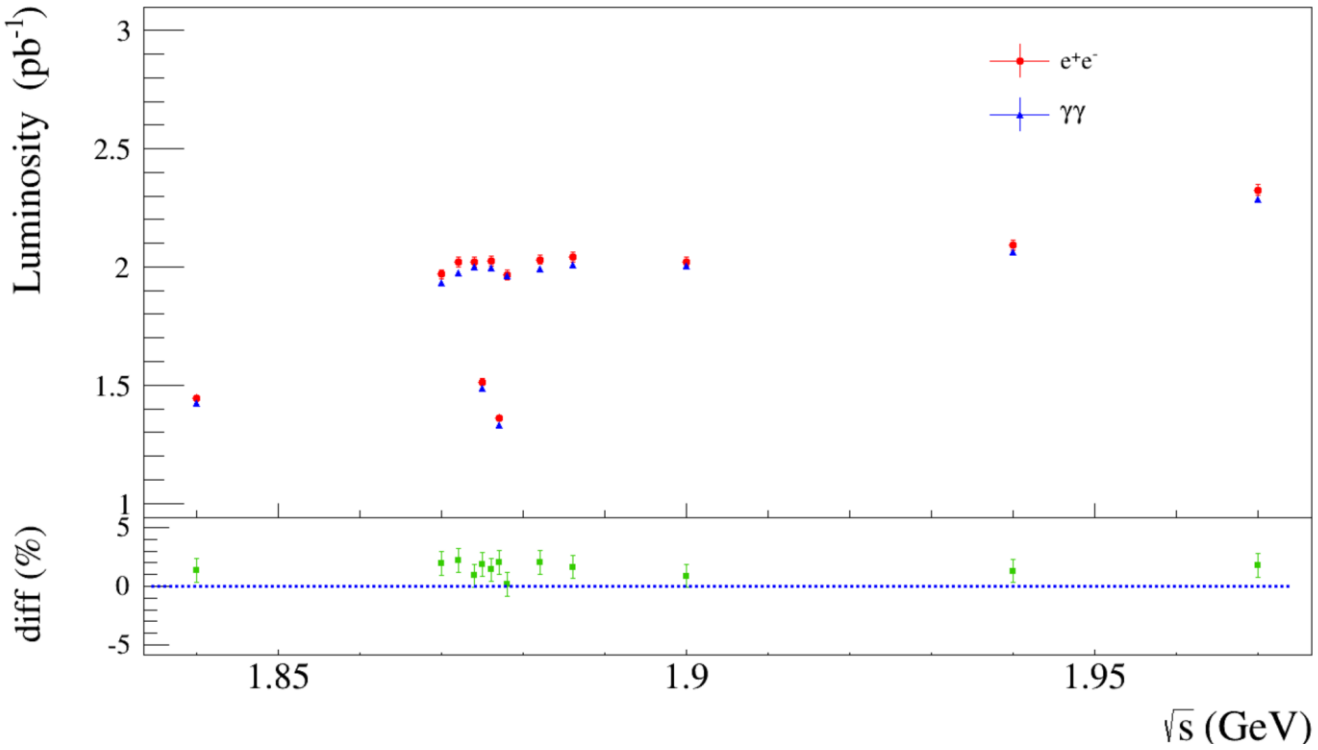
New Digam result



New Digam result

能量点（GeV）	截面（新）	效率（新）	截面（旧）	效率（旧）
1.840	130.0128	0.3722	130.0128	0.3720
1.870	125.8291	0.3744	125.8291	0.3740
1.872	126.1899	0.3741	126.1899	0.3740
1.874	125.2235	0.3722	125.2378	0.3722
1.875	125.1686	0.3734	125.1686	0.3734
1.876	125.3491	0.3738	125.3491	0.3741
1.877	125.1559	0.3749	125.1559	0.3747
1.878	124.7308	0.3721	124.7843	0.3735
1.882	124.1004	0.3732	124.1004	0.3729
1.886	123.8430	0.3736	123.8578	0.3734
1.900	121.8317	0.3731	121.8317	0.3735
1.940	116.9627	0.3728	117.0036	0.3728
1.970	113.7810	0.3741	113.8109	0.3738

New Digam result



New BABAYAGANLO

$\sqrt{s}$ (GeV)	Efficiency	Cross section	$\varepsilon * \sigma$
4.740	0.1068	614.3933	65.5932
4.750	0.1071	611.7609	65.5486
4.780	0.1071	603.9625	64.6765
4.840	0.1074	588.6047	63.1891
4.914	0.1071	570.8294	61.1284
4.946	0.1071	563.3798	60.3121

$\sqrt{s}$ (GeV)	Efficiency	Cross section	$\varepsilon * \sigma$	Diff.
4.740	0.2025	324.6753	65.7526	-0.0024
4.750	0.2024	323.2683	65.4437	0.0016
4.780	0.2024	319.1518	64.5826	0.0015
4.840	0.2032	311.1223	63.2213	-0.0005
4.914	0.2020	301.7391	60.9634	0.0027
4.946	0.2022	297.7416	60.2178	0.0016